(3)				
Under the Reperwork Reduction	on Act of 1995, no persons	s are required to re	U.S. Patent and Tradem	PTO/SB/21 (08-00) oved for use through 10/31/2002. OMB 0651-0031 mark Office: U.S. DEPARTMENT OF COMMERCE tion unless it displays a valid OMB control number.
& TRADEMARE			Application Numb r	10/646,528
	ANSMITT	AL	Filing Date	08/22/2003
	<b>FORM</b>		First Named Inventor	Kenneth COLLINS, et al.
(to be used for a	all correspondence after	r initial filing)	Group Art Unit	N/A
			Examiner Name	Unknown
Total Number of	of Pages in This Submis	ssion 9	Attorney Docket Numbe	er 8401 05
		ENCL	OSURES (check	call that apply)
Fee Transmittal For Fee Attached Amendment / Reply After Final Affidavits/de Extension of Time F Express Abandonm Information Disclos Certified Copy of Production Document(s) Response to Missin Incomplete Applicat Response to under 37 CF	d y eclaration(s) Request nent Request sure Statement triority ng Parts/	Drawing Licensin Petition Petition Provisio Change Address Termina Request	ng-related Papers  to Convert to a  onal Application  of Attorney, Revocation  of Correspondence	After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below):
	SIGNATUF	RE OF APPLI	CANT, ATTORNEY, OR	AGENT
Firm or Individual name	Robert M. Wall	`	g. No. 29,119	
Signature	Hones	Mu	Tall	-
Date			09/18/2003	
			ATE OF MAILING	
I hereby certify that this cor mail in an envelope addres	respondence is being dised to: Commissioner for	or Patents, Was	he United States Postal Serv shington, DC 20231 on this d	vice with sufficient postage as first class date: September 18, 2003
Tuned or printed name	Shelly Hart			

Typed or printed name 09/18/2003 Signature Date

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

CERTIFICATE OF MAILING
I hereby certify that this paper and every
paper referred to therein as being enclased
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an envelope addressed to Commissioner
for Patents, P.O. Box 1480, Alexandria, VA 22213-1480
on Polymer 1881, Alexandria, VA 22213-1480

SEP 2 2 2003

PATENT

Attorn y Docket No. 8401 05 RW Ref. No. APM/001-02-CP5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
 Kenneth COLLINS, et al.

Entitled: PLASMA IMMERSION ION
 IMPLANTATION APPARATUS INCLUDING AN
 INDUCTIVELY COUPLED PLASMA SOURCE
 HAVING LOW DISSOCIATION AND LOW
 MINIMUM PLASMA VOLTAGE

Serial No.: 10/646,528

# INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Filing Date: August 22, 2003

#### Sir:

Attached hereto is Form PTO-1449 listing documents believed relevant to the subject application. It is respectfully requested that these documents be made of record and an initialed copy of each form be returned to the undersigned.

No representation is made that more pertinent material is not available or should not be considered by the Examiner. It is expected that the Patent and Trademark Office will independently conduct a complete search of appropriate art. Furthermore, no admission is being made that these documents are prior art, and applicant reserves the right to challenge any such consideration.

It is believed that this disclosure complies with the requirements of 37 CFR 1.56, 1.97, and 1.98, and the Manual of Patent Examining Procedures, section 609 and 707.05. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

A copy of each document is enclosed unless indicated otherwise. Some of the documents may have markings on them. No significance is meant to be attached to the markings. These documents are not necessarily analogous art.

Respectfully submitted,

Dated: 09-18-2013

Robert M. Wallace Registration No. 29,119 Attorney for Applicants

Robert M. Wallace Patent Counsel 2112 Eastman Avenue, Suite 102 Ventura, CA 93003 (805) 644-4035 INFORMATION: DISCLOSURE STATEMENT BY APPLACE

Sheet 1 of 6

Application Number:

10/646,528

Filing Date:

August 22, 2003

First Named Inventor: **Group Art Unit:** 

Kenneth COLLINS, et al.

**Examiner Name:** 

Unknown Unknown Attorney Docket Number: 008401 05

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	US-3,109,100	10-29-1963	GECEWICZ	250	219	05-19-1960
	US-3,576,685	04-27-1971	SWANN ET AL.	148	187	03-15-1968
	US-3,907,616	09-23-1975	WIEMER	148	188	08-16-1974
	US-4,116,791	09-26-1978	ZEGA	204	192	05-18-1977
	US-4,382,099	05-03-1983	LEGGE ET AL.	427	34	10-26-1981
	US-4,385,946	05-31-1983	FINEGAN ET AL.	148	175	06-19-1981
	US-4,434,036	02-28-1984	HOERSCHELMANN ET AL.	204	164	05-03-1982
	US-4,465,529	08-14-1984	ARIMA ET AL.	148	188	06-04-1982

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	Examiner Initials	Foreign Patent Document	Publication Date	Country	Name of Patentee or Applicant of Cited Document	Translation? (Yes/No/n/a)
	W.	/EP 0 546 852 A1	16.06.1993	EUROPE	CHARLES ZAROWIN ET AL.	N/A
		/EP 0 836 218 A2	15.04.1998	EUROPE	SERGIO EDELSTEIN ET AL.	N/A
		EP 0 964 074 A2	15.12.1999	EUROPE	ALEC DENHOLM ET AL.	N/A
L		EP 1 111 084 A1	27.06.2001	EUROPE	JAMES BERNSTEIN ET AL.	N/A
		JEP 1 191 121 A1	27.03.2002	EUROPE	MICHELANGELO DELFINO	N/A

Examiner Initials

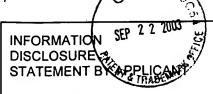
### NON PATENT LITERATURE DOCUMENTS

Zhang, B.C., and Cross, R.C., "A high power radio frequency transformer for plasma production," Rev. Sci. Instrum., Vol. 69, No. 1, pp. 101-108, January 1998.

U.S. Patent Application Serial No.: 09/638,075, filed August 11, 2000, entitled, "EXTERNALLY EXCITED TORROIDAL PLASMA SOURCE," By Hiroji Hanawa, et al.

Examiner's Signature:

Date Considered:



Sheet 2 of 6

**Application Number:** 

First Named Inventor:

10/646,528

Filing Date:

August 22, 2003 Kenneth COLLINS, et al.

Group Art Unit: **Examiner Name:**  Unknown Unknown

Attorney Docket Number: 008401 05

## **U. S. PATENT DOCUMENTS**

Examiner Initials	Document No	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date
	US-4,481,229	11-06-1984	SUZUKI ET AL.	427	38	06-20-1983
	US-4,500,563	02-19-1985	ELLENBERGER ET AL.	427	38	12-15-1982
	US-4,521,441	06-04-1985	FLOWERS	427	38	12-19-1983
	US-4,539,217	09-03-1985	FARLEY	427	10	06-27-1984
	US-4,565,588	01-21-1986	SEKI ET AL.	148	186	10-10-1984
	US-4,698,104	10-06-1987	BARKER ET AL.	437	141	03-02-1987
	US-4,764,394	08-16-1988	CONRAD	427	38	01-20-1987
	US-4,778,561	10-18-1988	GHANBARI	156	643	10-30-1987
	US-4,867,859	09-19-1989	HARADA ET AL.	204	298	08-04-1987
	US-4,871,421	10-03-1989	OGLE ET AL.	156	643	09-15-1988
	US-4,912,065	05-27-1990	MIZUNO ET AL.	437	141	05-26-1988
	US-4,937,205	06-26-1990	NAKAYAMA ET AL.	437	165	08-04-1988
	US-4,948,458	08-14-1990	OGLE	156	643	08-14-1990
	US-5,061,838	10-29-1991	LANE ET AL.	219	121.59	06-23-1989

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Examiner Initials	Foreign Patent Document	Publication Date	Country	Name of Patentee or Applicant of Cited Document	Translation? (Yes/No/n/a)
	∫ <sub>,</sub> JP 59-218728	10.12.1984	JAPAN	UNKNOWN	NO
	JP 59-86214	18.5.1984	JAPAN	UNKNOWN	NO
	JP 62-120041	1.6.1987	JAPAN	UNKNOWN	NO
	J WO 93/18201	16.09.2003	WIPO	FELCH ET AL.	N/A

### NON PATENT LITERATURE DOCUMENTS

Examiner's Signature:

Examiner

Initials

Date Considered:



INFORMATION DISCLOSURE TRADELLANT

Sheet 3 of 6

Application Number:

10/646,528

Filing Date:

August 22, 2003

First Named Inventor: Group Art Unit:

Kenneth COLLINS, et al.

**Examiner Name:** 

Unknown Unknown Attorney Docket Number: 008401 05

**U. S. PATENT DOCUMENTS** 

Examiner Initials	Document No	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date
	US-5,106,827	04-21-1992	BORDEN ET AL.	505	1	02-05-1991
	US-5,107,201	04-21-1992	OGLE	324	72.5	12-11-1990
	US-5,270,250	12-14-1993	MURAI ET AL.	437	165	12-23-1991
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	WO 02/25694 A2	28.03.2002	WIPO	JAMES BERNSTEIN ET AL.	N/A				

Examiner NON PATENT LITERATURE DOCUMENTS Initials

Examiner's Signature:

Date Considered:

INFORMATION DISCLOSURE BY A FRAME

Sheet 4 of 6

Application Number:

10/646,528

Filing Date:

August 22, 2003

First Named Inventor: Group Art Unit:

Kenneth COLLINS, et al.

Unknown Unknown

Examiner Name: Attorney Docket Number: 008401 05

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Examiner Initials	Document No	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date
	US-5,587,038	12-24-1996	CECCHI ET AL.	156	345	06-16-1994
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Examiner Initials	Foreign Patent Document	Publication Date	Country	Name of Patentee or Applicant of Cited Document	Translation? (Yes/No/n/a)

#### Examiner Initials

# NON PATENT LITERATURE DOCUMENTS

# Examiner's Signature:

Date Considered:



INFORMATION THAT **DISCLOSURE** STATEMENT BY APPLICANT

Sheet 5 of 6

Application Number:

10/646,528

Filing Date:

August 22, 2003

Group Art Unit:

First Named Inventor:

Kenneth COLLINS, et al. Unknown

Examiner Name:

Unknown Attorney Docket Number: 008401 05

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Examiner Initials		NON PA	ATENT LITERATU	URE DOCUMENTS			

Examiner's Signature:

Date Considered:



INFORMATION
DISCLOSURE TRANSMITTED
STATEMENT BY APPLICANT

Sheet 6 of 6

Application Number:

First Named Inventor:

10/646,528

Filing Date:

August 22, 2003

Group Art Unit: **Examiner Name:**  Kenneth COLLINS, et al. Unknown

Unknown Attorney Docket Number: 008401 05

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	US-6,559,408 B2	05-06-2003	SMITH ET AL.	219	121.57	05-10-2002
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101/2/01/11/10								
Examiner Initials	Foreign Patent Document	Publication Date	Country	Name of Patentee or Applicant of Cited Document	Translation? (Y s/No/n/a)			

Examiner's Signature:

Date Considered: